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CENTRAL INTELLIGENCE AGENCY

REPORT NO.

FCD 560 25X1A

INFORMATION REPORT

CD NO.

COUNTRY

East Germany

DATE DISTR.

9 November 1953

SUBJECT

Research Activities of Professor Eisenkolb and Colleagues at Dresden Technical University

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SUPPLEMENT TO REPORT NO.

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THIS IS UNEVALUATED INFORMATION

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SOURCE

- 1. Prof. Eisenkolb (fnu), Dresden, worked primarily on iron and iron-phosphorus powdered metals. It is not known whether the Soviets exhibited any direct interest in his work, or if the research ever led to any practical applications. Euch of Eisenkolb's results have been published in 1953.
- 2. Last year Prof. Eisenkolb initiated high temperature work in the metal-ceramic field, but by the Spring of 1953 this research had produced few results, primarily because of the absence of a specialist in this field. Instead, the normal laboratory staff carried on the research. In its early stages this work probably served no purpose other than general orientation. It is believed that in the future Prof. Eisenkolb's research will be confined to powder metallurgy and soft magnetic materials.
- 3. Personnel, associated with Eisenkolb, were working as follows:
  - a. Netal ceramics: Cand,-Ing. Richter (fnu)
  - b. Contact materials: Dipl.-Ing. Dzinka (fnu)
  - c. Addition of small amounts of oxide to metal: Kougener (fnu)
  - d. Powder metallurgical strip rolls (iron, nichol): Dipl.-Ing. Baumgaertel (fnu) and others
  - e. Layer materials (bimetal strips) produced by rolling sintered materials: unimown
  - f. High elasticity of tough sintered natorial (iron, phosphorus): Dipl.-Ing. Dzinka
  - g. Piston rings (mixed material of iron and steel): Dipl.-Ing. Baungaertel
  - h. Material for friction bearings (iron): Dipl.-Ing. Dzinka
  - i. Sintering processes, semiactive states, gamma and alpha changes: Dipl.-Ing. Thuenmler (fnu)

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- J. Magnetic properties of soft materials: Dr.-Ing. Rapmann (fnu), Mpl.-Flys. dittig (fnu), and others
- k. "Rechteckschleife" (50-90 iron-nickel): Dipl.-Ing. Linder (fau)
- Material with small permeability changes ("Permeabilitaetsansting"): unknown
- m. Material with small expansion coefficient (watch spring saterial): unknown
- n. Material will small wattage losses: unknown
- o. "Landverschiebungen" (powder pictures): unknown

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